

SEQUENCE LISTING

<110> Hartley, James L.  
Brasch, Michael A.  
Temple, Gary F.  
Fox, Donna K.

<120> Recombinational Cloning Using Nucleic Acids Having  
Recombination Sites

<130> 0942.2850004

<140>

<141>

<150> US 60/065,930

<151> 1997-10-24

<160> 60

<170> PatentIn Ver. 2.0

<210> 1

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 1

rkycwgcttt yktrtacnaa stsgb

25

<210> 2

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination

0942.2850004

products

<400> 2

agccwgcttt yktrtacnaa ctsgb

25

<210> 3

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 3

gttcagcttt cktrtacnaa ctsgb

25

<210> 4

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 4

agccwgcttt cktrtacnaa gtsgb

25

<210> 5

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 5

gttcagcttt yktrtacnaa gtsgb

25

0017337102398

<210> 6  
<211> 25  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 6

agcctgcttt tttgtacaaa cttgt

25

<210> 7  
<211> 25  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 7

agcctgcttt cttgtacaaa cttgt

25

<210> 8  
<211> 25  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 8

accagcttt cttgtacaaa gtggt

25

<210> 9  
<211> 25  
<212> DNA  
<213> Unknown

0917387-102398

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 9

gttcagcttt tttgtacaaa cttgt

25

<210> 10

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 10

gttcagcttt cttgtacaaa cttgt

25

<210> 11

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 11

gttcagcttt cttgtacaaa gtggt

25

<210> 12

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 12

0917387.102399

agcctgcttt tttgtacaaa gttgg 25

<210> 13

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 13

agcctgcttt cttgtacaaa gttgg 25

<210> 14

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 14

accagcttt cttgtacaaa gttgg 25

<210> 15

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 15

gttcagcttt tttgtacaaa gttgg 25

<210> 16

<211> 25

<212> DNA

091739 10399  
050207 282760

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 16

gttcagcttt cttgtacaaa gttgg

25

<210> 17

<211> 39

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 17

ccaccacaaa cgcgtccatg gaattacact ttaatttag

39

<210> 18

<211> 39

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 18

ccaccacaag tcgacgcatg ccgacagcct tccaaatgt

39

<210> 19

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

0917387-10249  
386201-282760

<400> 19

ggccgattac gatatcccaa cgaccgaaaa cctgtatattt cagggt

46

<210> 20

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 20

cagggttttcg gtcgttgga tatcgtaatc

30

<210> 21

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 21

ggccagatta cgatatccca acgaccgaaa acctgtatatt tcagggt

47

<210> 22

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 22

cagggttttcg gtcgttgga tatcgtaatc t

31

<210> 23

<211> 48

091739710993

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 23

ggccaagatt acgatatccc aacgaccgaa aacctgtatt ttcagggt

48

<210> 24

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 24

caggttttcg gtcgttgga tatcgtaatc tt

32

<210> 25

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 25

accgtttacg tggac

15

<210> 26

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

0047387.10249  
2520/854750



<400> 26  
tcgagtcac gtaaacgggtt cccacttatt a 31

<210> 27  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 27  
uauuuucagg guatggagaa aaaaatcact ggatatacc 39

<210> 28  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 28  
ucccacuuau uacgccccgc cctgccactc atc 33

<210> 29  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 29  
uauuuucagg guatgcctgt tctggaaaac cgg 33

<210> 30

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 30

ucccacuuau uatttcagcc ccagggcggc tttc

34

<210> 31

<211> 58

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 31

tccgttgaag cctgcttttt tataactaact tgagcgaagc ctcggggtca gcataagg 58

<210> 32

<211> 58

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 32

ccaataactt cgtatagcat acattatacg aagttattgc cccttggtga cataactcg 58

<210> 33

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

091738740259

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 33

tcactagtcg gcggcccaca

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 34

gagcggccccc cgcggaccac

20

<210> 35

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 35

ggcccacaag tttgtacaaa a

21

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 36

091738710239

ccccgaggac cactttgtac

20

<210> 37

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 37

acaagtttgt acaaaaaagc a

21

<210> 38

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 38

accactttgt acaagaaagc t

21

<210> 39

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 39

rbycwgcttt yttrtacwaa stkgd

25

<210> 40

<211> 25

<212> DNA

091738 10233  
000001 000000

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 40

asccwgcttt yttrtacwaa stkgw 25

<210> 41

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 41

asccwgcttt yttrtacwaa gttgg 25

<210> 42

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 42

gttcagcttt yttrtacwaa stkgw 25

<210> 43

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

091228 1035 0520T 282750

<400> 43

gttcagcttt yttrtacwaa gttgg

25

<210> 44

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 44

tcggacgaaa aaatatgatt gaact

25

<210> 45

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 45

tcggacgaaa aaacatgttt gaaca

25

<210> 46

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 46

tcggacgaaa gaacatgttt gaaca

25

<210> 47

091738-10239

<211> 25  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: recombination  
products

<400> 47  
tgggtcgaaa gaacatgttt cacca

25

<210> 48  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 48  
aattctcatg ttgacagct tate

24

<210> 49  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 49  
cgatggatat gttctgccaa g

21

<210> 50  
<211> 49  
<212> DNA  
<213> Artificial Sequence

091739 10699  
85E20T 48E2760

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 50

acaagtttgt acaaaaaaagc aggctaattc tcatgtttga cagcttatac

49

<210> 51

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 51

accactttgt acaagaaagc tgggtcgatg gatatgttct gccaaag

46

<210> 52

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 52

ggggacaagt ttgtacaaaa aagcaggcta atttcatgt ttgacagctt atc

53

<210> 53

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 53

ggggaccact ttgtacaaga aagctggggtc gatggatatg ttctgccaag

50

0917738 102398  
85520T 482215



<210> 54  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 54  
aatacattca aatatgtatc cgc

23

<210> 55  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 55  
ttaccaatgc ttaatcagtg ag

22

<210> 56  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 56  
acaagtttgt acaaaaaagc aggctaatac attcaaatat gtatccgc

48

<210> 57  
<211> 47  
<212> DNA

0917387 102490

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 57

accactttgt acaagaaagc tgggtttacc aatgcttaat cagtgag

47

<210> 58

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 58

ggggacaagt ttgtacaaaa aagcaggcta atacattcaa atatgtatcc gc

52

<210> 59

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotide

<400> 59

ggggaccact ttgtacaaga aagctgggtt taccaatgct taatcagtga g

51

<210> 60

<211> 25

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: recombination

091738 102398

-19-

products

<400> 60

agcctgcttt tttatactaa cttga

25

09 07 387 102398